

Budget and Economic Update

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The Big Picture

A sizable budget surplus this year and likely next, then deficits

- An FY 20-21 surplus even without latest federal stimulus (ARP)
- New federal funds available through December 2024 (much is restricted)
- IFO estimates longer-term deficit at ~\$2.5 billion | consensus it is significant

Labor market down, but nearly all other economic indicators strong

- Down <u>441k jobs</u> in February from prior year
- Positives: housing market, sales tax revenues show strong growth

Minimum wage, PIT changes and combined reporting/rate reduction

- Minimum wage impact looks very different now than 2019
- Combined reporting vs rate reduction: what is the trade off?

General Fund Financial Statement (Jan 2021)

	19-20	20-21	21-22	22-23	23-24	24-25	25-26
Beginning Balance	\$30	-\$2,734					
Current Year Revenues	32,276	38,437	\$36,675	\$37,851	\$39,352	\$40,828	\$42,321
Less Refunds	<u>-1,150</u>	<u>-1,300</u>	<u>-1,326</u>	<u>-1,353</u>	<u>-1,380</u>	<u>-1,407</u>	<u>-1,435</u>
Net Revenues	31,126	37,137	35,349	36,498	37,972	39,421	40,885
State Expenditures	-34,090	-33,141	-37,975	-39,223	-40,586	-41,877	-42,971
Current Year Balance	-2,934	1,263	-2,626	-2,725	-2,613	-2,455	-2,086
Plus Prior Year Lapses	<u>200</u>	<u>219</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>
Prelim Ending Balance	-2,734	1,481	-2,501	-2,600	-2,488	-2,330	-1,961

Note: Millions of dollars. Excludes \$900 million in supplemental appropriations for FY 20-21 requested in Executive Budget. For FY 21-22, excludes enhanced FMAP (\$2.4 billion) and new American Rescue Plan stimulus. Prior year lapses include transfers to Budget Stabilization Reserve Fund. Source: IFO Economic and Budget Outlook, FY 20-21 to 25-26 (Jan 2021).

FYTD Revenues (Adjusted for Delayed Due Dates)

	Actual Revenue	s (\$ millions)	
	Amount	Growth	Notes
General Fund	\$28,706	3.6%	
Corporate Net Income	2,808	11.5	anticipate weak final payments
Sales - Non-Motor	7,958	4.2	strong online growth
Sales - Motor Vehicle	1,316	15.4	pent-up demand
Income – Withholding	8,131	0.3	
Income – Other	3,100	8.1	final quarterly payments strong, includes \$100m from PPP
All Tobacco	891	3.7	
Inheritance	964	3.3	
Realty Transfer	465	14.9	housing market very strong
All Other	3,071	-3.5	

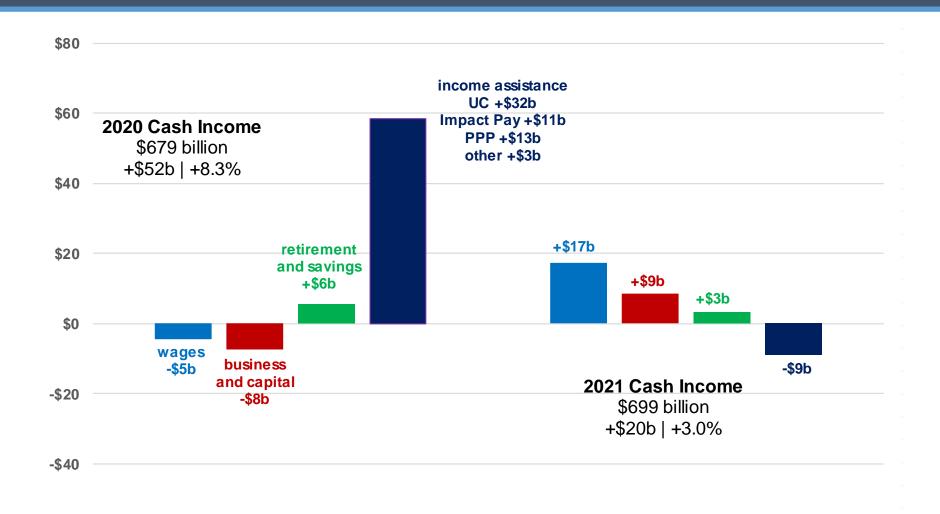
Note: Millions of dollars. Growth rates adjusted to reverse the shift of revenues to FY 2020-21, as well as the impact of one-time transfers and an extra PIT withholding due date in FY 2020-21.

New Round of Federal Stimulus

	CARES	CAA	ARP	Notes
Payments to Individuals				
State Unemployment Compensation	\$5.2	\$1.6		CAA is full year amount
Federal Pandemic Unemploy Comp (FPUC)	16.2	3.4	4.5	extended to Sept
Pandemic Unemployment Assistance (PUA)	7.0	1.1	1.3	
Other Federal Assistance	3.3	0.9	1.4	
SNAP Benefits	0.9	0.6	0.3	extended to Sept
Economic Impact Payments	11.0	6.3	14.7	ARP at \$1,400 per
Child Tax Credit Awards	0.0	0.0	<u>3.6</u>	spread through year
Total	43.6	13.9	25.7	
Other Federal Programs				
Paycheck Protection Program (PPP)	\$20.7	\$11.2	\$0.3	
Direct State Support	6.1	4.6	18.2	\$7.3b General Aid
Direct Local Support	2.6	0.8	9.1	\$6.1b General Aid
Other Support	<u>4.7</u>	<u>0.8</u>	<u>3.3</u>	hospital, college, restaurant
Total	34.1	17.5	30.9	

Note: Figures in dollar billions. CARES is Coronavirus Aid, Relief and Economic Security Act of 2020. CAA is Consolidated Appropriations Act of 2020. ARP is American Rescue Plan of 2021. ARP monies must be spent on costs incurred prior to Dec 2024 and cannot be used to reduce taxes or make pension contributions.

Pennsylvania Cash Income



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Recent PA Economic Growth Rates or Change

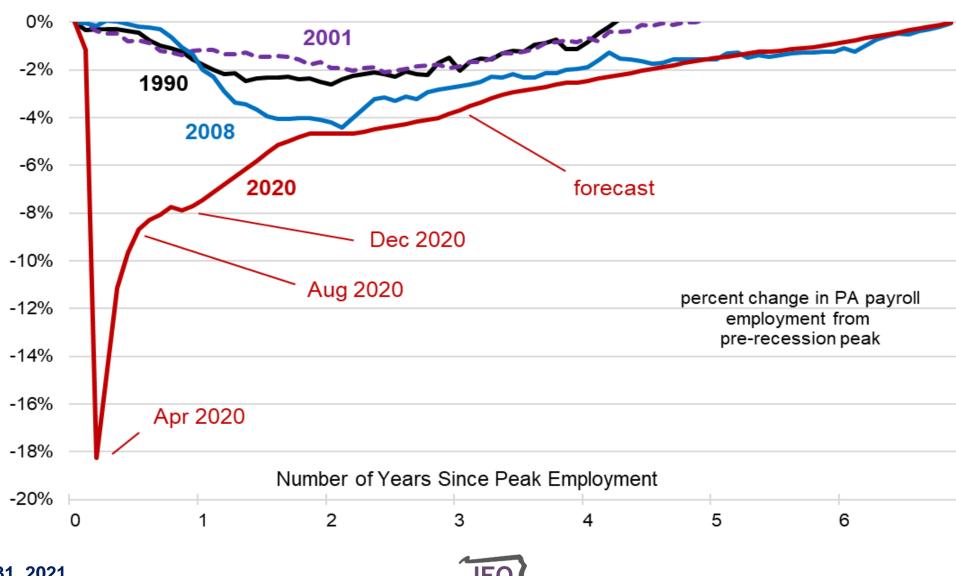
	2020 Q1	2020 Q2	2020 Q3	2020 Q4	2021 Q1
Real GDP	-5.8%	-34.0%	35.5%	3.7%	
Personal Income	2.5%	13.1%	9.0%	3.5%	
Wages-Salaries Paid	2.2%	-6.2%	-1.0%	-0.2%	2.3%
Sales-Use Tax Revenues	5.7%	-14.5%	5.7%	5.4%	6.0%
Change Payroll Jobs (000s)	29	-896	-517	-468	-450
Change Labor Force (000s)	51	-96	-160	-231	-229
Home Values	5.1%	4.8%	8.3%	10.8%	

Notes: Real GDP is quarterly annualized growth rate. All other rates are year-over-year. Sales tax adjusts for shifts and transfers. Wages-Salaries growth rate for 2021 Q1 based on withholding tax collections. Change in Payroll Jobs and Labor Force is change from prior year. Labor market data not seasonally adjusted. Data for 2021 Q1 based on January and February. Sources: U.S. Bureau of Economic Analysis, U.S. Bureau of Labor Statistics, Federal Housing Finance Agency.

Low-Wage and Part-Time Jobs Hit Hardest

YOY Number Cl	nange (000s)	YOY Percei	nt Change
Apr 20	Feb 21	Apr 20	Feb 21
-1,099	-441	-18.1%	-7.3%
-98	-10	-37.9%	-4.1%
-85	-33	-14.7%	-5.8%
-172	-31	-21.0%	-3.8%
-27	1	-9.0%	0.3%
-9	-10	-2.7%	-2.9%
-19	-1	-5.3%	-0.2%
-68	-36	-21.4%	-11.9%
-37	-31	-14.4%	-12.1%
-109	-49	-10.3%	-4.6%
-56	-30	-59.5%	-35.4%
-276	-115	-57.7%	-24.7%
-95	-36	-36.5%	-13.8%
-25	-44	-3.4%	-6.1%
-23	-17	-9.3%	-7.1%
	Apr 20 -1,099 -98 -85 -172 -27 -9 -19 -68 -37 -109 -56 -276 -95 -25	-1,099 -441 -98 -10 -85 -33 -172 -31 -27 1 -9 -10 -19 -1 -68 -36 -37 -31 -109 -49 -56 -30 -276 -115 -95 -36 -25 -44	Apr 20 Feb 21 Apr 20 -1,099 -441 -18.1% -98 -10 -37.9% -85 -33 -14.7% -172 -31 -21.0% -27 1 -9.0% -9 -10 -2.7% -19 -1 -5.3% -68 -36 -21.4% -37 -31 -14.4% -109 -49 -10.3% -56 -30 -59.5% -276 -115 -57.7% -95 -36 -36.5% -25 -44 -3.4%

IFO Forecast: 6 Years Needed for Full PA Jobs Recovery



Reasons Why Lost Jobs Will Not Return Soon

Labor productivity (output per hour) surged in 2020

Automation | release less productive employees | working more

Dramatic shift in consumer spending patterns

- Online sales tax collections double | shift to larger firms with online presence
- For example: retail clothing store employment still down by ~20%
- Investment in the home: gyms, meal preparation, entertainment, remodels

Remote working is here to stay

- Impacts restaurants, dry cleaners, formal/business casual clothing sales
- Gasoline consumption down 10% for FY 2020-21

Businesses tighten belts

Operations and procurement | travel and meals/entertainment | leased space

State and Local Tax Burden: Rates and Ranks

	Corporat	e Income		Persona	I Income		Sales and Use	
	Rank	ATR		Rank	ATR		Rank	ATR
DE	1	3.62%	NY	1	5.10%	OH	17	2.80%
NY	4	0.83	MD	3	4.17	NY	22	2.56
NJ	6	0.73	DE	7	3.40	NC	28	2.42
PA	12	0.47	VA	12	3.07	WV	30	2.33
MD	22	0.38	WV	14	2.88	MI	37	1.99
NC	27	0.35	NC	15	2.78	NJ	38	1.97
WV	33	0.27	OH	18	2.65	PA	39	1.94
MI	38	0.24	NJ	19	2.63	VA	42	1.57
VA	42	0.20	PA	20	2.62	MD	43	1.48
OH	46	0.10	MI	31	2.20	DE	48	0.11
USw		0.40	USw		2.48	USw		2.53
USuw		0.44	USuw		2.24	USuw		2.46

Note: Average Tax Rate (ATR) is the ratio of the state-local tax revenue to modified state personal income. USw is weighted average. USuw is unweighted average (each state has same weight). Total Taxes excludes any severance tax or impact fee. Source: State and Local Tax Revenues: A 50 State Comparison, IFO (November 2020).

State and Local Tax Burden: Rates and Ranks

	Prop	erty	Liquor, Tobacco, Game				Total [*]	Taxes
	Rank	ATR		Rank	ATR		Rank	ATR
NJ	3	4.96%	WV	1	1.02%	NY	1	14.86%
NY	6	4.42	DE	4	0.72	NJ	7	11.65
MI	20	3.01	MD	5	0.66	DE	8	11.57
VA	21	2.98	PA	6	0.66	MD	10	11.20
PA	25	2.82	NC	10	0.51	WV	11	11.10
OH	26	2.79	MI	13	0.48	PA	21	10.24
MD	27	2.76	OH	15	0.45	OH	25	9.91
WV	36	2.35	NY	27	0.36	VA	29	9.50
NC	41	2.16	NJ	28	0.36	NC	31	9.48
DE	47	1.75	VA	38	0.26	MI	32	9.25
USw		3.05	USw		0.35	USw		10.20
USuw		2.98	USuw		0.40	USuw		9.95

Note: Average Tax Rate (ATR) is the ratio of the state-local tax revenue to modified state personal income. USw is weighted average. USuw is unweighted average (each state has same weight). Total Taxes excludes any severance tax or impact fee. Source: *State and Local Tax Revenues: A 50 State Comparison*, IFO (November 2020).

Minimum Wage Impact: 2019 vs 2022

	Number of Payroll Employees (000s				
Non-Tipped Workers	2019	2022	Change		
\$7.25 to \$7.99	78	nominal	-78		
\$8.00 to \$9.99	428	310	-119		
\$10.00 to \$10.99	260	250	-11		
\$11.00 to \$11.99	278	205	-72		
\$12.00 to \$14.99	764	696	-68		
\$15.00 or more	<u>3,916</u>	<u>4,065</u>	<u>149</u>		
TOTAL	5,725	5,526	-198		
Directly Affected by \$12 Minimum Wage	1,044	765	-279		
Directly Affected by \$15 Minimum Wage	1,808	1,461	-347		
Total Tipped Workers	177	147	-30		

Note: Excludes self-employed. Source: Occupational Employment Statistics (OES), 2019.

Combined Reporting and Rate Reduction: Net Tax Cut

	20-21	21-22	22-23	23-24	24-25
Combined Reporting	\$66	\$324	\$432	\$411	\$417
Rate Reduction	<u>-\$75</u>	<u>-\$336</u>	<u>-\$651</u>	<u>-\$945</u>	<u>-\$1,205</u>
Total	-\$9	-\$12	-\$219	-\$534	-\$787

Notes Rate reduction phased in to 5.99% over 5 years

27 states use Combined Reporting

2 of them have an NOL cap (CT at 50%, NH at \$10m)

IFO projects Combined Reporting expands tax base by 12%

DOR projects it is 29%; 5% of firms pay entire increase

Note: Figures in dollar millions.

Source: Independent Fiscal Office, Analysis of Revenue Proposals (April 2020).

Natural Gas Trends

	2015	2016	2017	2018	2019	2020
PA Production (bcf)	4,601	5,096	5,364	6,123	6,815	7,090
Growth Rate	13.0%	10.8%	5.3%	14.1%	11.3%	4.0%
New Horizontal Wells Drilled	784	501	811	777	614	475
Growth Rate	-42.7%	-36.1%	61.9%	-4.2%	-21.0%	-22.6%
PA Natural Gas Spot Price	\$1.37	\$1.47	\$2.10	\$2.59	\$2.10	\$1.38
NYMEX Natural Gas Price	\$2.66	\$2.46	\$3.11	\$3.09	\$2.63	\$2.08
Impact Fee Collections	\$187.7	\$173.3	\$209.6	\$251.8	\$200.4	\$144.9
Wells Paying Impact Fee	7,874	8,121	8,518	10,164	10,112	10,438
Average Fee Per Well	\$23,838	\$21,340	\$24,607	\$24,774	\$19,818	\$13,882

Notes: Production and drilling amounts from DEP. PA spot price is a weighted annual average at major Pennsylvania hubs. NYMEX price is the annual average price of natural gas near-month settlements on the New York Mercantile Exchange, upon which the Impact Fee schedule is based. Impact Fee collections in millions of dollars, reported by the PUC, with 2020 estimated by the IFO. Average Fee Per Well computed by the IFO.

Impact Fee Effective Tax Rates

Calendar	Impact Fee	Unconventional	Price of	Market	Annual
Year	Revenues ¹	Production (bcf) ²	Gas (mcf) ³	Value⁴	ETR
2015	\$187,712	4,601	\$0.64	\$2,951,600	6.4%
2016	173,259	5,096	0.75	3,844,900	4.5
2017	209,557	5,364	1.40	7,505,000	2.8
2018	251,831	6,123	1.90	11,653,300	2.2
2019	200,365	6,815	1.38	9,407,600	2.1
2020	144,850	7,090	0.63	4,478,600	3.3

Notes:

¹ Fees in thousands of dollars, reported by the PUC. 2020 is estimated by the IFO.

² Production data from DEP, in billion cubic feet.

³ Weighted average of spot prices at major PA hubs. Net of post-production costs, assumed to be \$0.80 per mcf based on investor presentations for several regional producers.

⁴ Does not include natural gas liquids, thousands of dollars.

2020 Energy Impact: Consumption Decline

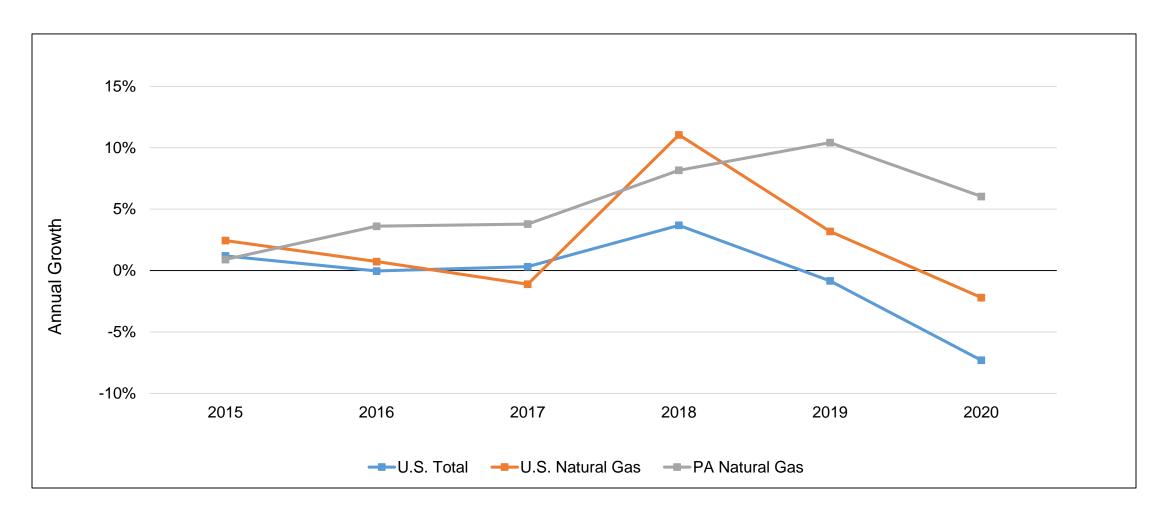
Total U.S. energy consumption down 7 percent year-over-year

- Largest reduction in over a decade, largely driven by coal and petroleum
- Lowest total level of consumption since 2009
- Year-over-year declines in all sources except renewables

After several years of growth, U.S. natural gas consumption falls

- Strongest year-over-year decline since PA became major producer
- PA exports over 75% of the gas it produces, so national consumption is important
- Preliminary data show that in-state consumption grew in 2020

Consumption Growth Trends



Note: U.S. Total includes coal, natural gas, petroleum, nuclear electric and renewables. Source: U.S. Energy Information Administration.

PA Oil and Gas Employment Trends

	2015	2016	2017	2018	2019	2020	Total Change
Oil and Gas Extraction	6,324	5,423	4,568	4,496	4,751	4,056	
Change		-901	-855	-72	255	-695	-2,268
Natural Gas Pipeline Transportation	1,548	1,617	1,746	1,857	1,804	1,730	
Change		69	129	111	-53	-74	182
Electric Power Generation – Fossil Fuels	3,308	3,030	2,805	2,742	2,599	2,287	
Change		-278	-225	-63	-143	-312	-1,021
Natural Gas Distribution	4,648	4,787	4,866	4,940	4,774	4,826	
Change		139	79	74	-166	52	178

Notes: Electric power generation is related to all fossil fuels, no further detail is available. 2020 employment is as of September. Includes direct jobs only and excludes indirect jobs supported by the industry such as independent contractors.

Source: Bureau of Labor Statistics.

Questions

Presentation posted on the IFO website

http://www.ifo.state.pa.us/

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